

Program		Wind Energy Technology									
Degree/Certificate:		16-hour, 33-hour, and Associate of Applied Science									
Course	Course Title	Credits	Safety	Mechanical	Electrical	Hydraulics	Operations	General	ILO_Em1: A student will be able to demonstrate knowledge of norms and expectations of professional environments.	ILO_Em2: A student will demonstrate skills in working with others in a professional and constructive manner.	
Required Courses											
WET 16-hour Certificate											
WE 100	Introduction to Wind Energy	3	WE_PLO11				WE_PLO15	WE_PLO16			
WET 33-hour Certificate											
WE 110	Electrical Theory	3			WE_PLO23						
WE 120	Hydraulics	3				WE_PLO24					
WE 150	Mechanical Systems	3		WE_PLO22							
WE 210	Electronics	3			WE_PLO23						
WE 225	Motors, Generators, PLCs	3			WE_PLO23						
WE 265	Field Training and Project Operations	3						WE_PLO26			
WET AAS											
WE 105	Employability Skills, Safety, and Blueprint Reading	3	WE_PLO41								
WE 230	Substation and Voltage Regulation	3					WE_PLO45				
WE 240	GIS/GPS	3						WE_PLO46			
WE 250	Data Acquisition and Communication	3						WE_PLO46			
WE 255	Airfoils and Composite Repair	3									

Wind Energy Technology 16-Hour Certificate

WE_PLO11. Safety: Students will explain all general safety guidelines related to the wind energy industry.

WE_PLO15. Operations: Students will summarize all aspects of the fundamental operation of a wind turbine and its relationship relative to a wind farm.

WE_PLO16. General: Students will summarize the extensive aspects of the wind industry; computer technology, personal communications, teamwork, and environmental issues.

Wind Energy Technology 33-Hour Certificate

WE_PLO22. Mechanical: Students will safely operate, maintain, troubleshoot, and repair mechanical systems.

WE_PLO23. Electrical: Students will safely operate, maintain, troubleshoot, and repair electrical systems.

WE_PLO24. Hydraulics: Students will safely operate, maintain, troubleshoot, and repair hydraulic systems.

WE_PLO26. General: Students will demonstrate the extensive skillsets of the wind industry; computer technology, personal communications, and teamwork.

Wind Energy Technology AAS

WE_PLO41. Safety: Students will explain and comply with all OSHA safety standards related to the wind energy industry.

WE_PLO45. Operations: Students will describe electrical transmission from a wind turbine, through a wind farm, and exiting a collection substation.

WE_PLO46. General: Students will troubleshoot and optimize wind farm performance through the collection and interpretation of data.